

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P478581

Luminaire Tested: **IFLD-S-SA2B-750-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478581
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-750-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

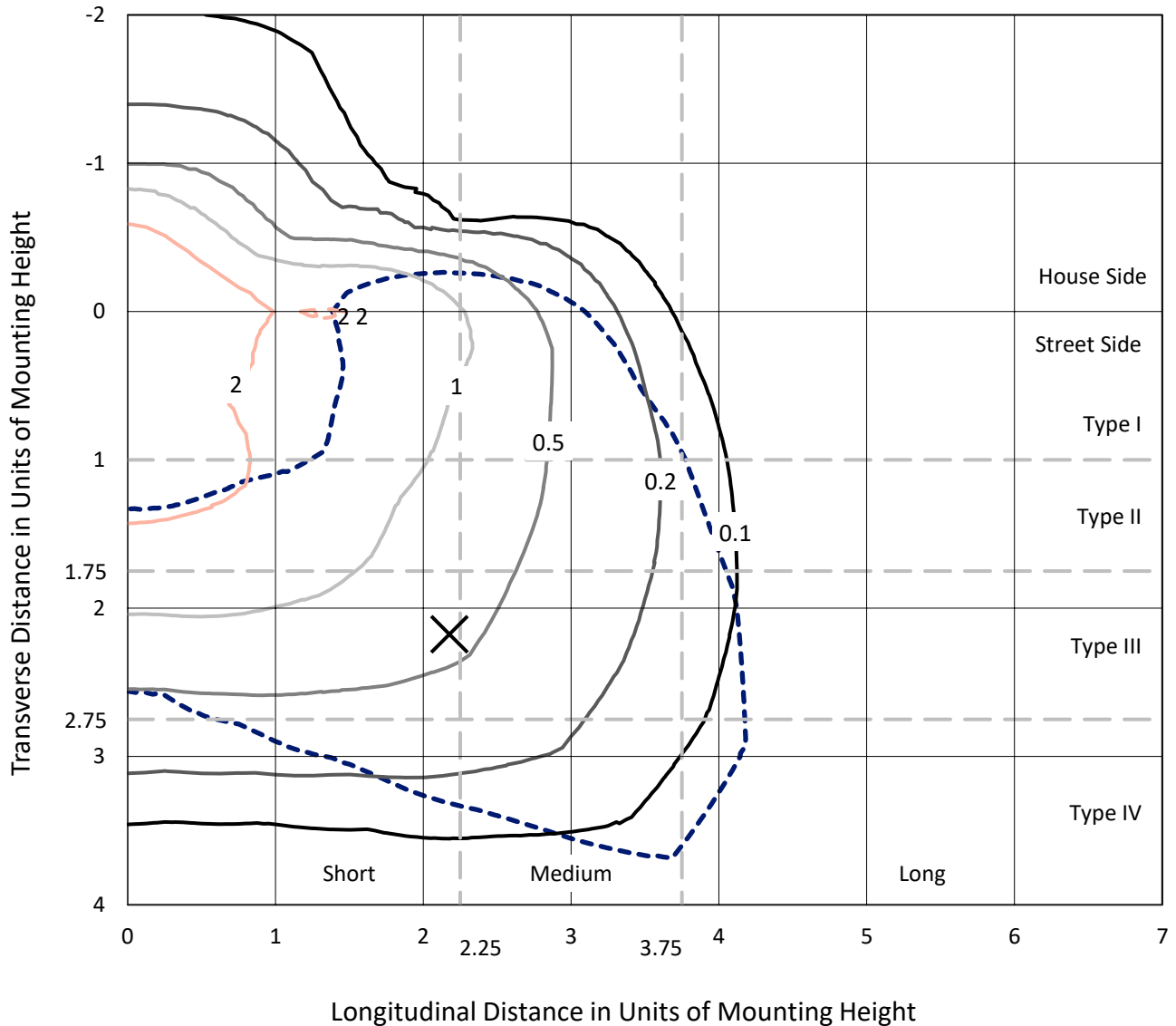
Lumens per Lamp: N/A
Luminaire Lumens: 11805.1 lumens
Efficiency: N/A
Efficacy: 143.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

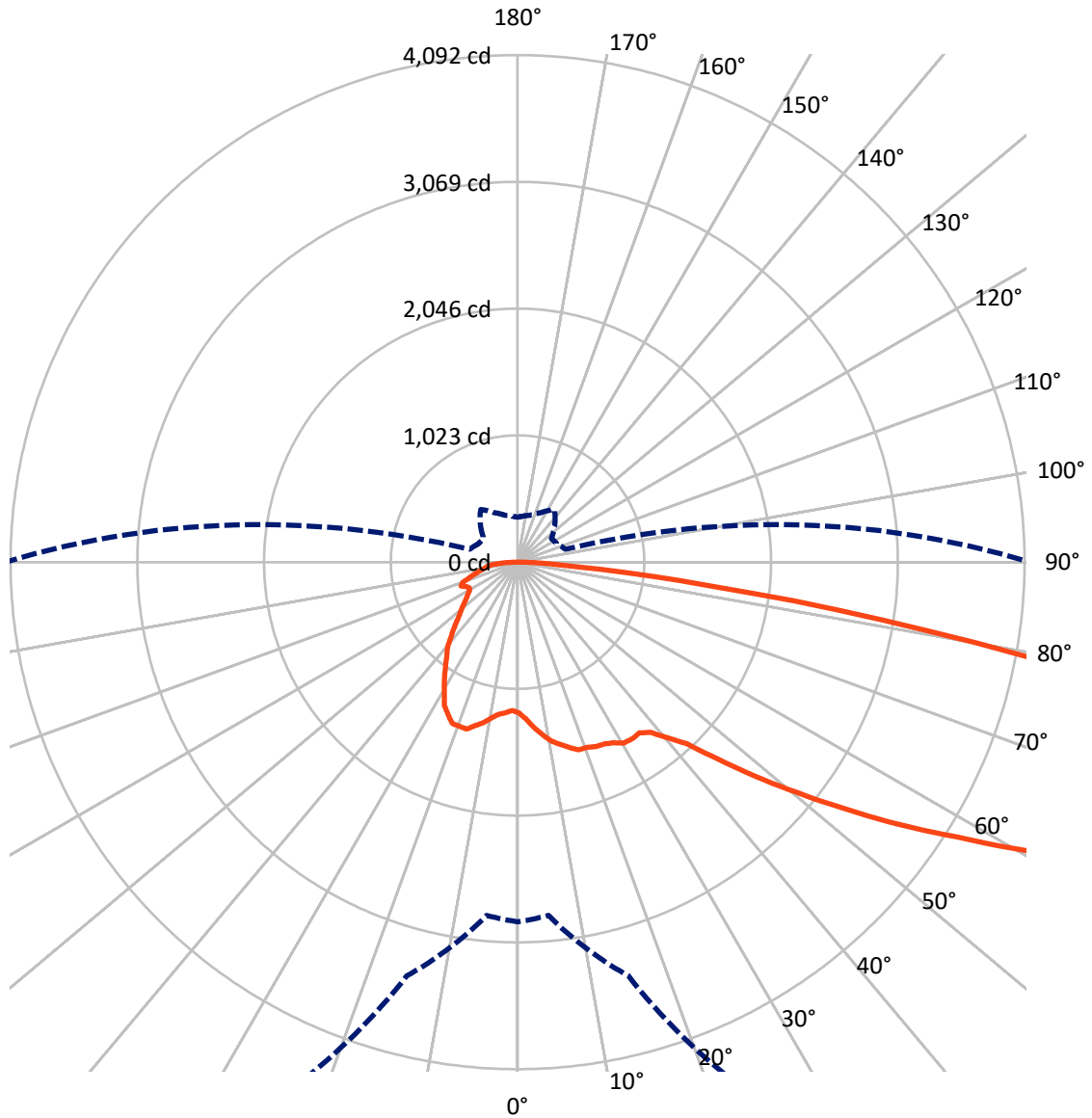
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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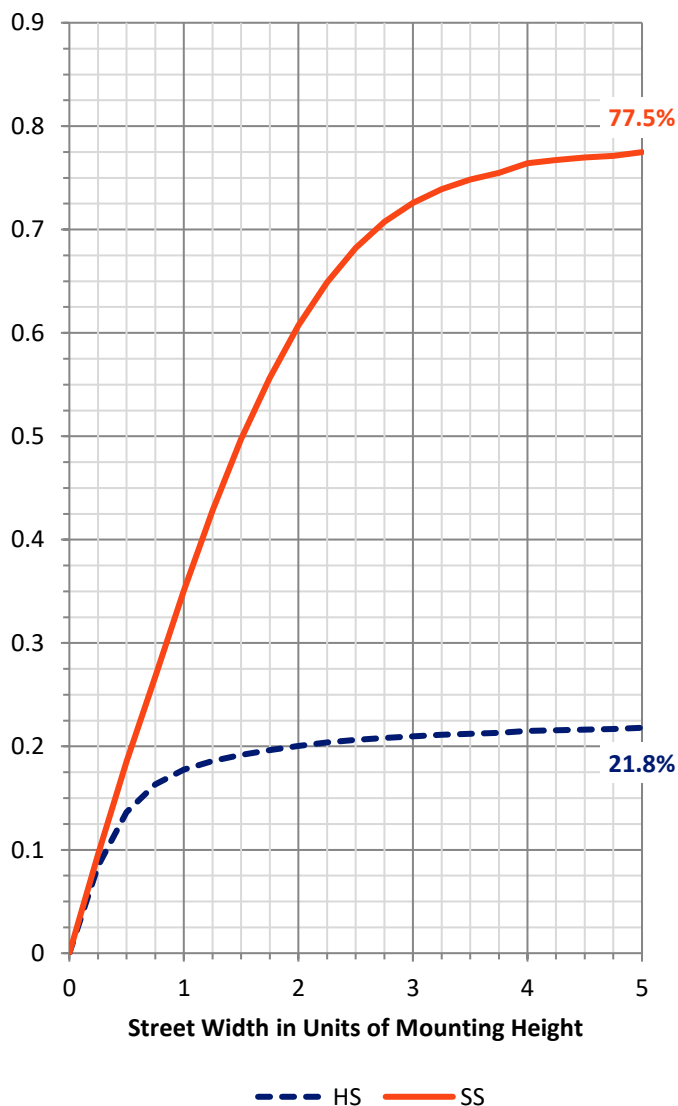
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2627.9	0.0	2627.9
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	9177.2	0.0	9177.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	11805.1	0.0	11805.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.4	1.1
10°-20°	413.9	3.5
20°-30°	698.9	5.9
30°-40°	967.2	8.2
40°-50°	1383.5	11.7
50°-60°	2231.5	18.9
60°-70°	3291.1	27.9
70°-80°	2389.9	20.2
80°-90°	304.7	2.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	11805.1	100.0
0°-180°	11805.1	100.0

Coefficient of Utilization



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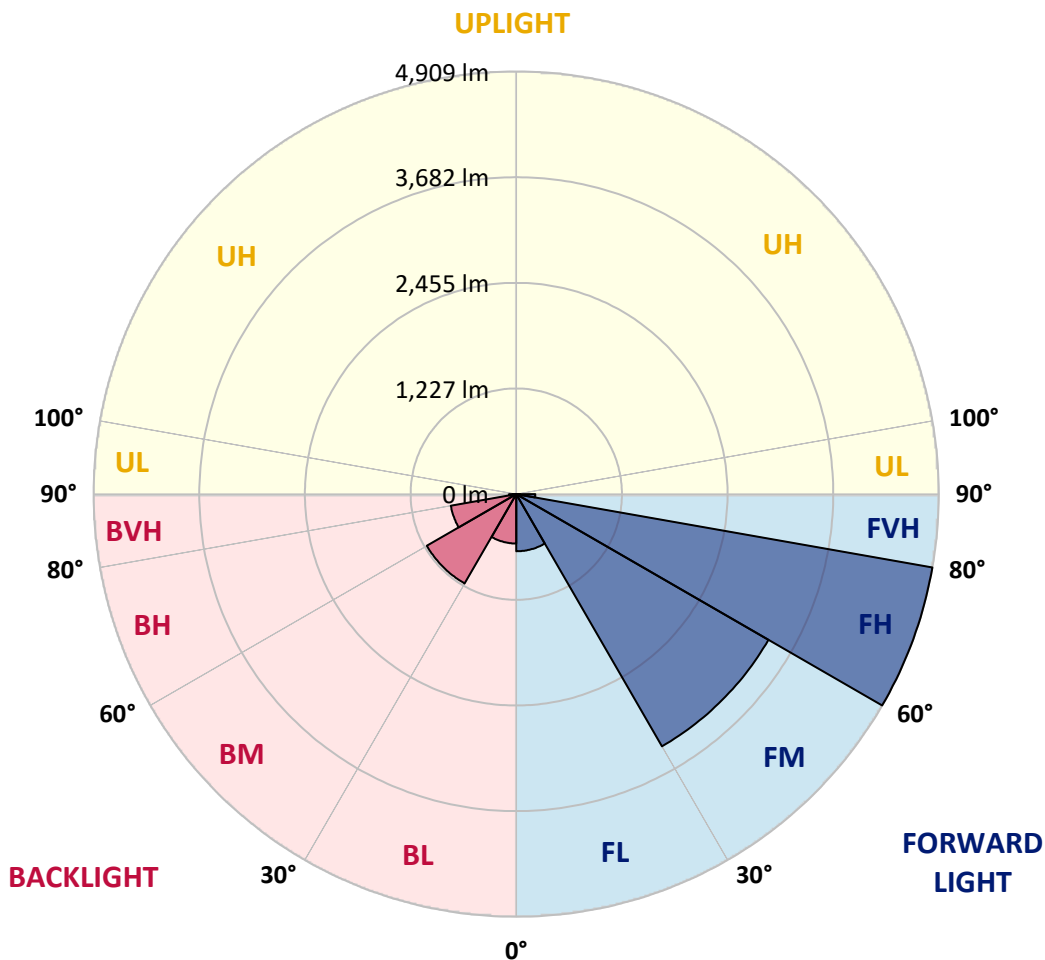
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	663.5	5.6			
FM (30°-60°)	3382.9	28.7			
FH (60°-80°)	4909.1	41.6			G2/5000
FVH (80°-90°)	221.7	1.9			G2/225
BL (0°-30°)	573.8	4.9	B2/1000		
BM (30°-60°)	1199.3	10.2	B2/2500		
BH (60°-80°)	771.9	6.5	B2/1000		G2/1000
BVH (80°-90°)	82.9	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1215.7	1215.7	1215.7	1215.7	1215.7	1215.7	1215.7	1215.7	1215.7	1215.7	1215.7
2.5°	1280.6	1288.3	1280.6	1279.4	1266.6	1257.7	1265.4	1253.9	1241.2	1236.1	1224.6
5°	1397.8	1399.0	1385.0	1386.3	1359.6	1331.6	1336.7	1302.3	1265.4	1251.4	1228.4
7.5°	1517.4	1503.4	1483.0	1476.7	1434.7	1404.1	1400.3	1369.7	1312.5	1280.6	1248.8
10°	1595.1	1600.2	1567.1	1539.1	1503.4	1466.5	1465.2	1407.9	1374.8	1327.7	1287.0
12.5°	1663.8	1665.1	1637.1	1592.5	1548.0	1502.1	1508.5	1483.0	1427.0	1382.5	1341.7
15°	1717.3	1709.6	1679.1	1638.4	1591.3	1555.6	1551.8	1530.1	1483.0	1446.1	1378.7
17.5°	1732.6	1728.7	1698.2	1654.9	1609.1	1582.3	1592.5	1556.9	1537.8	1504.7	1439.8
20°	1703.3	1694.4	1689.3	1640.9	1607.8	1605.3	1596.3	1604.0	1572.2	1541.6	1494.5
22.5°	1649.8	1646.0	1643.4	1605.3	1590.0	1601.4	1616.7	1628.2	1623.1	1593.8	1540.3
25°	1595.1	1612.9	1596.3	1578.5	1600.2	1629.4	1625.6	1662.5	1662.5	1653.6	1609.1
27.5°	1633.3	1621.8	1609.1	1600.2	1607.8	1653.6	1651.1	1695.6	1712.2	1695.6	1644.7
30°	1728.7	1717.3	1680.4	1640.9	1630.7	1680.4	1693.1	1732.6	1740.2	1699.5	1656.2
32.5°	1908.2	1901.9	1843.3	1727.5	1665.1	1693.1	1699.5	1744.0	1737.6	1712.2	1694.4
35°	2174.3	2152.6	2071.2	1875.1	1737.6	1709.6	1693.1	1728.7	1752.9	1740.2	1723.6
37.5°	2465.8	2441.6	2341.0	2092.8	1868.8	1754.2	1741.5	1770.7	1798.7	1792.4	1758.0
40°	2744.6	2744.6	2654.2	2365.2	2063.5	1862.4	1864.9	1831.8	1857.3	1845.9	1852.2
42.5°	3019.6	3009.4	2972.5	2684.8	2272.3	2043.2	2002.4	1919.7	1965.5	1961.7	1970.6
45°	3298.3	3290.7	3280.5	2982.6	2571.5	2287.6	2265.9	2117.0	2159.0	2141.2	2179.4
47.5°	3521.1	3530.0	3530.0	3314.9	2891.0	2613.5	2581.6	2346.1	2426.3	2435.2	2444.2
50°	3710.8	3714.6	3710.8	3631.9	3247.4	2986.5	2921.5	2682.2	2762.4	2832.4	2913.9
52.5°	3973.0	3978.1	3960.3	3929.8	3731.2	3378.5	3306.0	3039.9	3204.1	3278.0	3424.4
55°	4296.4	4258.2	4225.1	4248.0	4195.8	3810.1	3735.0	3409.1	3656.1	3754.1	4046.9
57.5°	4356.2	4389.3	4473.3	4655.4	4730.5	4230.2	4186.9	3862.3	4166.5	4251.8	4740.7
60°	4567.5	4512.8	4719.0	5113.6	5197.7	4777.6	4733.0	4358.8	4674.5	4763.6	5381.0
62.5°	4706.3	4703.7	5009.3	5477.7	5668.7	5345.3	5254.9	5004.2	5223.1	5309.7	6078.6
65°	4665.5	4702.5	5244.8	5691.6	6062.0	5990.7	5938.5	5559.2	5848.2	5840.5	6533.0
67.5°	4293.8	4398.2	5095.8	5845.6	6647.6	6777.5	6760.9	6339.5	6356.1	6194.4	6735.4
70°	3778.3	3742.6	4465.7	5685.2	6940.4	7710.6	7706.7	6920.0	6813.1	6272.1	6155.0
72°	2902.4	2863.0	3457.5	4882.0	6786.4	8083.6	8198.1	7322.3	6808.0	5950.0	5084.4
72.5°	2635.1	2600.7	3192.7	4595.5	6615.8	8180.3	8126.8	7337.6	6754.5	5798.5	4749.6
75°	1213.2	1173.7	1595.1	2813.3	5160.7	7248.5	7430.5	6866.6	5899.1	4615.9	2845.2
77.5°	361.5	350.1	513.0	1135.5	2999.2	5340.2	5410.3	5181.1	4118.2	2528.2	1055.3
80°	201.1	202.4	264.8	425.2	1318.8	3087.0	3339.1	3200.3	2020.3	835.1	351.3
82.5°	112.0	118.4	165.5	252.1	605.9	1416.8	1525.1	1470.3	730.7	392.1	192.2
85°	58.6	61.1	86.6	134.9	343.7	448.1	460.8	493.9	379.4	267.3	103.1
87.5°	22.9	22.9	31.8	56.0	127.3	138.8	124.8	151.5	217.7	173.1	50.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1215.7	1215.7	1215.7	1215.7	1215.7	1215.7	1215.7	1215.7	1215.7	1215.7	1215.7
2.5°	1234.8	1224.6	1223.4	1206.8	1211.9	1197.9	1199.2	1196.6	1197.9	1195.3	1189.0
5°	1228.4	1220.8	1199.2	1213.2	1200.4	1218.3	1232.3	1227.2	1231.0	1229.7	1231.0
7.5°	1237.4	1227.2	1224.6	1217.0	1228.4	1236.1	1247.5	1279.4	1276.8	1280.6	1288.3
10°	1264.1	1252.6	1245.0	1256.5	1250.1	1274.3	1287.0	1303.6	1332.8	1334.1	1318.8
12.5°	1316.3	1308.6	1293.4	1295.9	1317.6	1325.2	1332.8	1343.0	1362.1	1358.3	1372.3
15°	1376.1	1359.6	1350.7	1348.1	1353.2	1362.1	1360.8	1371.0	1381.2	1390.1	1386.3
17.5°	1419.4	1397.8	1400.3	1413.0	1411.8	1409.2	1392.7	1387.6	1392.7	1397.8	1395.2
20°	1464.0	1466.5	1447.4	1435.9	1430.9	1405.4	1392.7	1377.4	1362.1	1369.7	1381.2
22.5°	1520.0	1508.5	1480.5	1446.1	1420.7	1405.4	1365.9	1339.2	1339.2	1346.8	1343.0
25°	1583.6	1559.4	1511.1	1448.7	1416.8	1351.9	1323.9	1320.1	1309.9	1321.4	1326.5
27.5°	1633.3	1611.6	1545.4	1439.8	1351.9	1299.7	1283.2	1278.1	1294.6	1295.9	1316.3
30°	1653.6	1647.3	1550.5	1416.8	1285.7	1201.7	1191.5	1214.4	1232.3	1259.0	1260.3
32.5°	1680.4	1682.9	1558.2	1363.4	1199.2	1115.1	1099.9	1127.9	1178.8	1200.4	1217.0
35°	1724.9	1737.6	1551.8	1297.2	1107.5	1027.3	1024.8	1032.4	1082.1	1120.2	1141.9
37.5°	1802.6	1800.0	1550.5	1218.3	1034.9	950.9	930.6	933.1	966.2	998.0	994.2
40°	1907.0	1896.8	1546.7	1115.1	940.7	886.0	851.6	838.9	836.4	827.5	830.0
42.5°	2049.5	2029.2	1545.4	1010.8	855.5	796.9	772.7	739.6	715.4	669.6	672.1
45°	2248.1	2212.5	1512.3	912.7	771.4	723.1	686.1	662.0	609.8	552.5	552.5
47.5°	2554.9	2439.1	1513.6	804.5	690.0	650.5	625.0	583.0	527.0	481.2	476.1
50°	3006.8	2742.0	1470.3	719.2	623.8	597.0	570.3	521.9	468.5	436.6	440.5
52.5°	3589.9	3194.0	1469.0	642.9	571.6	552.5	523.2	479.9	440.5	420.1	412.5
55°	4284.9	3792.3	1514.9	580.5	518.1	507.9	495.2	459.6	421.4	403.5	402.3
57.5°	4996.5	4376.6	1588.7	535.9	472.3	479.9	471.0	443.0	412.5	392.1	389.5
60°	5629.2	4839.9	1439.8	482.5	431.5	448.1	460.8	436.6	420.1	418.8	409.9
62.5°	6106.6	5038.5	1094.8	441.7	409.9	440.5	474.8	490.1	482.5	492.7	493.9
65°	6281.0	4918.9	753.6	420.1	393.4	458.3	534.7	529.6	485.0	465.9	476.1
67.5°	6036.6	4433.9	558.8	394.6	381.9	495.2	569.0	505.4	437.9	435.4	427.7
70°	5191.3	3757.9	455.7	367.9	362.8	474.8	553.8	468.5	412.5	395.9	388.3
72°	4136.0	2926.6	399.7	348.8	332.3	423.9	518.1	439.2	390.8	370.4	361.5
72.5°	3775.7	2712.8	392.1	339.9	325.9	412.5	500.3	430.3	385.7	367.9	353.9
75°	2071.2	1388.8	345.0	311.9	275.0	356.4	463.4	403.5	364.1	338.6	336.1
77.5°	770.2	538.5	297.9	276.2	238.1	308.1	421.4	383.2	331.0	299.2	292.8
80°	295.3	283.9	243.1	233.0	199.9	269.9	388.3	343.7	281.3	249.5	239.3
82.5°	179.5	165.5	184.6	182.0	152.8	245.7	365.4	322.1	249.5	202.4	196.0
85°	98.0	98.0	128.6	123.5	106.9	196.0	276.2	213.9	157.9	129.8	132.4
87.5°	43.3	50.9	68.7	64.9	58.6	110.8	134.9	113.3	78.9	53.5	57.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)